

## Contents of *Aquatic Toxicology*, Volume 45

### Vol. 45 No. 1

**MARCH 1999**

- Z.-X. Yuan, S.A. Honey, S. Kumar and H.C. Sikka (USA)  
Comparative metabolism of dibenzo[a,l]pyrene by liver microsomes from rainbow trout and rats 1
- M.-L. Lucan-Bouché, S. Biagianti-Risbourg, F. Arsac and G. Vernet (France)  
An original decontamination process developed by the aquatic oligochaete *Tubifex tubifex* exposed to copper and lead 9
- J.R. Carrasquero-Verde (USA)  
Role of associated bacteria in *Heterosigma carterae* toxicity to salmonids 19
- S.-Y. Cheng and J.-C. Chen (Taiwan, ROC)  
Hemocyanin oxygen affinity, and the fractionation of oxyhemocyanin and deoxyhemocyanin for *Penaeus monodon* exposed to elevated nitrite 35
- R. Kolanczyk, P. Schmieder, S. Bradbury and T. Spizzo (USA)  
Biotransformation of 4-methoxyphenol in rainbow trout (*Oncorhynchus mykiss*) hepatic microsomes 47
- N.N. Menon and N.R. Menon (India)  
Uptake of polycyclic aromatic hydrocarbons from suspended oil borne sediments by the marine bivalve *Sunetta scripta* 63
- Guide for Authors 71

### Vol. 45 Nos. 2–3

**APRIL 1999**

#### Review

- J.-M. Nicolas (Canada)  
Vitellogenesis in fish and the effects of polycyclic aromatic hydrocarbon contaminants 77

#### Research papers

- D.G.J. Larsson, M. Adolfsson-Erici, J. Parkkonen, M. Pettersson, A.H. Berg, P.-E. Olsson and L. Förlin (Sweden)  
Ethinylestradiol — an undesired fish contraceptive? 91
- A.A. Elskus, E. Monosson, A.E. McElroy, J.J. Stegeman and D.S. Woltering (USA)  
Altered CYP1A expression in *Fundulus heteroclitus* adults and larvae: a sign of pollutant resistance? 99

<i>S.W. Fisher, S.W. Chordas, III and P.F. Landrum (USA)</i> Lethal and sublethal body residues for PCB intoxication in the oligochaete, <i>Lumbriculus variegatus</i>	115
<i>J.B. Cooke and D.E. Hinton (USA)</i> Promotion by 17 $\beta$ -estradiol and $\beta$ -hexachlorocyclohexane of hepatocellular tumors in medaka, <i>Oryzias latipes</i>	127
<i>M. Haitzer, S. Höss, W. Traunspurger and C. Steinberg (Germany)</i> Relationship between concentration of dissolved organic matter (DOM) and the effect of DOM on the bioconcentration of benzo[a]pyrene	147
<i>A. Scarlett, P. Donkin, T.W. Fileman, S.V. Evans and M.E. Donkin (UK)</i> Risk posed by the antifouling agent Irgarol 1051 to the seagrass, <i>Zostera marina</i>	159
<i>P. Bjerregaard, B.W. Andersen and J.C. Rankin (Denmark)</i> Retention of methyl mercury and inorganic mercury in rainbow trout <i>Oncorhynchus mykiss</i> (W): effect of dietary selenium	171
<i>G. Ericson, B. Liewenborg, E. Lindesjö, C. Näf and L. Balk (Sweden)</i> DNA adducts in perch ( <i>Perca fluviatilis</i> ) from a creosote contaminated site in the River Ångermanälven, Sweden	181
<i>C. Hernández, M. Martín, G. Bodega, I. Suárez, J. Pérez and B. Fernández (Spain)</i> Response of carp central nervous system to hyperammonemic conditions: an immunocytochemical study of glutamine synthetase (GS), glial fibrillary acidic protein (GFAP) and 70 kDa heat-shock protein (HSP70)	195
<i>C.A. Krone and J.E. Stein (USA)</i> Species dependent biotransformation and tissue distribution of tributyltin in two marine teleosts	209

**Vol. 45 No. 4****MAY 1999****Research papers**

<i>N.A. Karrow, H.J. Boermans, D.G. Dixon, A. Hontella, K.R. Solomon, J.J. Whyte and N.C. Bols (Canada)</i> Characterizing the immunotoxicity of creosote to rainbow trout ( <i>Oncorhynchus mykiss</i> ): a microcosm study	223
<i>G.C. Balch and R.D. Evans (Canada)</i> A recirculating flow-through system for toxicity testing with stream-dwelling aquatic benthic invertebrates	241
<i>J.T. Barber, D.A. Thomas, L.Y. Yatsu and H.E. Ensley (USA)</i> The physiological consequences of ethylene glycol-induced changes in the frond structure of <i>Lemna gibba</i>	253
<i>J.M. McKim, R.C. Kolanczyk, G.J. Lien and A.D. Hoffman (USA)</i> Dynamics of renal excretion of phenol and major metabolites in the rainbow trout ( <i>Oncorhynchus mykiss</i> )	265
<i>C.W. Theodorakis, T. Elbl and L.R. Shugart (USA)</i> Genetic ecotoxicology IV: survival and DNA strand breakage is dependent on genotype in radionuclide-exposed mosquitofish	279
<b>Erratum</b>	293
<i>Contents of Aquatic Toxicology, Volume 45</i>	295